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## Targeted topics

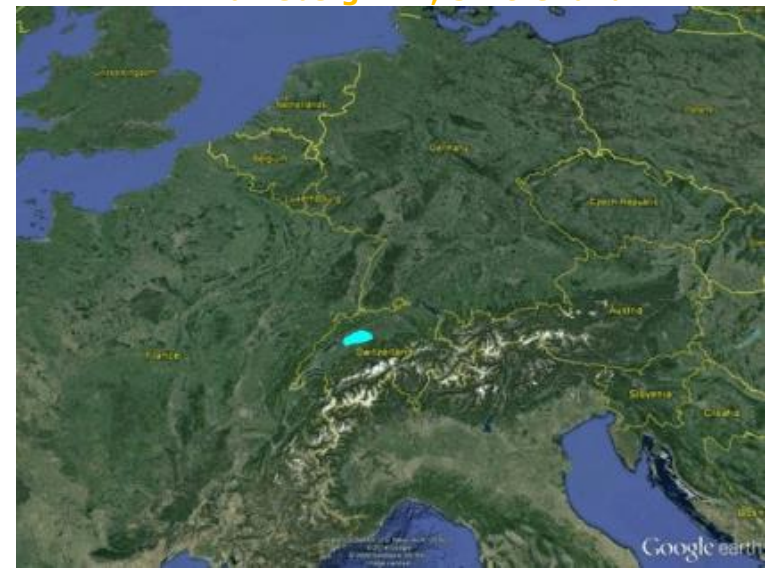
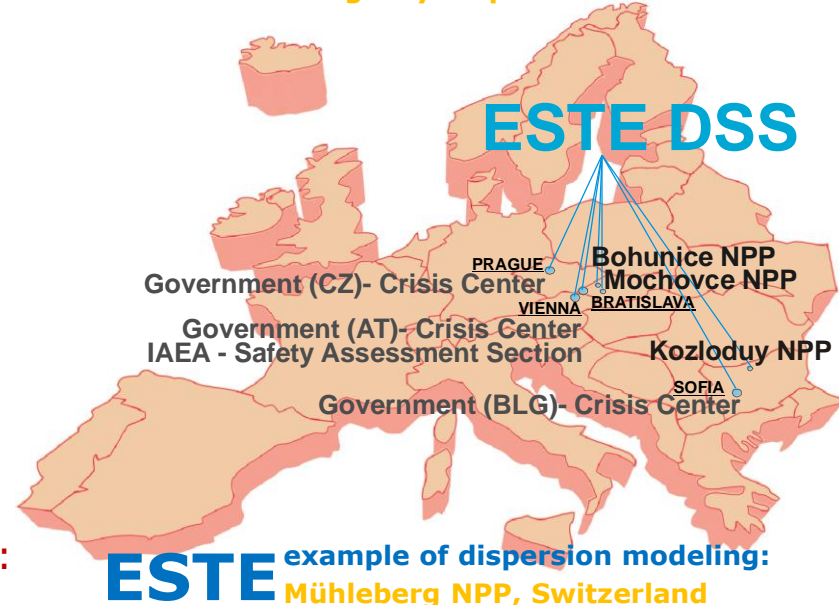
SU-DRS02-2018-2019-2020 subtopic 4	<b>Technologies for first responders - subtopic 4: Open</b>
SU-FCT02-2018-2019-2020 subtopic 4	<b>Technologies to enhance the fight against crime and terrorism - subtopic 4: Open</b>
SU-DRS04-2019-2020	<b>Chemical, biological, radiological and nuclear (CBRN) cluster</b>

## Offered skills in:

- **prediction of radioactive release, assessment of source term**
- **evaluation of radiological impacts and protective measures**
- **modeling of radionuclides in RURAL and URBAN environment**
- **radiological scenarios for training of responders**

- *Competencies (SME):*
  - **Response to radiation / nuclear emergency**
  - **Source term assessment**
  - **Radiological impacts, protective measures**
  - **Modeling of radionuclides in RURAL and URBAN environment**
  
- *Experiences EU projects:*
  - **Beneficiary in H2020 running project – FASTNET FAST Nuclear Emergency Tool**  
([www.fastnet-h2020.eu](http://www.fastnet-h2020.eu))
  - **UDINEE Urban Dispersion International Evaluation Exercise:**  
ADMs that can be used in urban environment following dirty bomb / RDD events (project of EC)
  
- *Skills (SME):*
  - **Dispersion modeling**
  - **Modeling of radiation and radionuclides**  
(MCNP, Origen)
  - **GIS and Remote Sensing analysis**
  - **Environmental Impact Assessment (EIA)**

**ESTE** implementations:  
emergency response DSS



# Offered expertise:

- *development of CBRN scenarios for exercises and training*
- *prediction of radioactive release, source term assessment*
- *dispersion modeling*
- *GIS, remote sensing*
- *evaluation of radiological impacts, recommendation of protective measures*
- *presentation of results (3D, web, mobile application)*

## ESTE CBRN – example for exercise in Prague:



**Concentration of Cs-137 in air as a function of time after application of RDD**